

LIST OF PRIOR ART CITED BY APPLICANT

**2ND SUPPLEMENTAL
PRIOR ART**APPLICANT
Croft III et alFILING DATE
1-22-02GROUP
2644**U.S. PATENT DOCUMENTS**

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>LLB</i>	AA	3,873,784	Mar. 25, 1975	Doschek			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						

RECEIVED

JAN 22 2004

Technology Center 2600

FOREIGN PATENT DOCUMENT

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AS						
	AT						
	AU						
	AV						
	AW						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	AX	
	AY	
	AZ	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered: Include copy of this form with next communication to Applicant.

SUPPLEMENTAL PRIOR ART

Croft III et al

FILING DATE
1-22-02

GROUP
2644

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>not</i>	AA	5,684,884	Nov. 4, 1997	Nakaya, et al.			
	AB	5,953,438	Sept. 14, 1999	Stevenson, et al.			
	AC	6,104,825	Aug. 15, 2000	Thigpen			
<i>not</i>	AD	6,137,891	Oct. 24, 2000	Porrizzo, et al.			
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
	AO						
	AP						
	AQ						
	AR						

RECEIVED

NOV 14 2002

Technology Center 2600

FOREIGN PATENT DOCUMENT

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AS						
	AT						
	AU						
	AV						
	AW						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	AX	
	AY	
	AZ	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.

MAY 17

Sheet 5 of 5

PTO 1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. T9573.NP	SERIAL NO. 10/055,821	RECEIVED MAY 20 2002	
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT Croft III et al		GROUP Technology Center 2600	
				FILING DATE 1-22-02			
U.S. PATENT DOCUMENTS							
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>20H</i>	EA	5,430,805	7/4/95	Stevenson et al			
	EB	5,487,114	1/23/96	Dinh			
	EC	5,638,456	6/10/97	Conley et al			
	ED	5,700,359	12/23/97	Bauer			
<i>20H</i>	EE	5,850,461	12/15/98	Zelinka			
	EF	5,901,235	5/4/99	Thigpen et al			
	EG	5,961,762	10/5/99	Zelinka et al			
<i>20H</i>	EH	6,188,772	2/13/01	Norris et al			
	EI						
	EJ						
	EK						
	EL						
	EM						
	EN						
	EO						
	EP						
	EQ						
	ER						
FOREIGN PATENT DOCUMENT							
							TRANSLATION YES NO
	ES						
	ET						
	EU						
	EV						
	EW						
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)							
	EX						
	EY						
	AZ						
EXAMINER <i>20H</i>					DATE CONSIDERED <i>12/27/04</i>		



PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. T9573.NP	SERIAL NO. 10/055,821	RECEIVED MAY 20 2002 Technology Center 2600
	APPLICANT Croft III et al		
	FILING DATE 1-22-02	GROUP	

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>[Signature]</i>	DA	4,695,986	9/22/87	Hossack			
	DB	4,751,419	6/14/88	Takahata			
	DC	4,803,733	2/7/89	Carver et al			
	DD	4,823,908	4/25/89	Tanaka et al			
	DE	4,837,838	6/6/89	Thigpen et al			
	DF	4,885,781	12/5/89	Seidel			
	DG	4,887,246	12/12/89	Hossack et al			
	DH	4,888,086	12/19/89	Hossack et al			
	DI	4,903,703	2/27/90	Igarashi et al			
	DJ	4,908,805	3/13/90	Sprenkels et al			
	DK	4,991,148	2/5/91	Gilchrist			
	DL	5,021,613	6/4/91	Garcia			
	DM	5,054,081	10/1/91	West			
	DN	5,142,511	8/25/92	Kanai et al			
	DO	5,153,859	10/6/92	Chatigny et al			
	DP	5,287,331	2/15/94	Shindel et al			
	DQ	5,357,578	10/18/94	Taniishi			
<i>[Signature]</i>	DR	5,392,358	2/21/95	Driver			

FOREIGN PATENT DOCUMENT

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	DS							
	DT							
	DU							
	DV							
	DW							

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	DX						
	DY						
	DZ						

EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>12/27/04</i>
--------------------------------	------------------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.

PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. T9573.NP	SERIAL NO. 10/055,821	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECEIVED MAY 20 2002 </div>	
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT Croft III et al		MAY 20 2002	
				FILING DATE 1-22-02	GROUP Technology Center 2600		

U.S. PATENT DOCUMENTS							
EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
X OH	CA	4,245,136	1/13/81	Krauel, Jr.			
	CB	4,284,921	8/18/81	Lemonon et al			
	CC	4,289,936	9/15/81	Civitello			
	CD	4,295,214	10/13/81	Thompson			
	CE	4,378,596	3/29/83	Clark			
	CF	4,385,210	5/24/83	Marquiss			
	CG	4,418,404	11/29/83	Gordon et al			
	CH	4,419,545	12/6/83	Kuindersma			
	CI	4,429,193	1/31/84	Busch-Vishniac et al			
	CJ	4,434,327	2/28/84	Busch-Vishniac et al			
	CK	4,439,642	3/27/84	Reynard			
	CL	4,471,172	9/11/84	Winey			
	CM	4,480,155	10/30/84	Winey			
	CN	4,550,228	10/29/85	Walker et al			
	CO	4,558,184	12/10/85	Busch-Vishniac et al			
	CP	4,593,160	6/3/86	Nakamura			
	CQ	4,593,567	6/10/86	Isselstein et al			
	OH	CR	4,672,591	6/9/87	Breimesser et al		

FOREIGN PATENT DOCUMENT							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
					YES	NO	
CS							
CT							
CU							
CV							
CW							

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)							
CX							
CY							
CZ							

EXAMINER OH	DATE CONSIDERED 12/12/04
----------------	-----------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.

MAY 17 2002
 RECEIVED
 U.S. PATENT & TRADEMARK OFFICE

PTO-1449 DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. T9573.NP	SERIAL NO. 10/055,821
	APPLICANT Croft III et al	
	FILING DATE 1-22-02	GROUP

LIST OF PRIOR ART CITED BY APPLICANT

RECEIVED
MAY 20 2002
Technology Center 2600

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
OH	AA	1,764,008	6/17/30	Crozier				
	AB	1,799,053	3/31/31	Mache				
	AC	1,809,754	6/9/31	Steedle				
	AD	1,951,669	3/20/34	Ramsey				
	AE	1,983,377	12/4/34	Kellogg				
	AF	2,461,344	2/8/49	Olson				
	AG	2,855,467	10/7/58	Curry				
	AH	2,935,575	5/3/60	Bobb				
	AI	2,975,243	3/14/61	Katella				
	AJ	2,975,307	1/2/58	Schroeder et al				
	AK	3,008,013	11/7/61	Williamson et al				
	AL	3,012,222	12/5/61	Hagemann				
	AM	3,136,867	6/9/64	Brettell				
	AN	3,141,071	7/14/64	Rich, S.R.				
	AO	3,345,469	10/3/67	Rod				
	AP	3,389,226	6/18/68	Peabody				
	OH	AQ	3,398,810	8/27/68	Clark III			
		AR	3,654,403	4/4/72	Bobb, deceased			

FOREIGN PATENT DOCUMENT

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
OH	AS	H2-265400	10/30/90	Japan				
	AT	WO 01/08449	2/1/01	EP				
	AU	WO 01/52437	7/19/01	PCT				
	AV	WO 00/41492	7/20/00	PCT				
	AW							

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

OH	AX	ULTRASONIC RANGING SYSTEM by Polaroid Corporation
	AY	PARAMETRIC LOUDSPEAKER - CHARACTERISTICS OF ACOUSTIC FIELD AND SUITABLE MODULATION OF CARRIER ULTRASOUND, Aoki, Kenichi, Kamakura, Tomoo and Kumamoto, Yoshiro, Electronics and Communications in Japan, Part 3, Vol. 74, No. 9, pp. 76-82 (1991)
	AZ	PARAMETRIC ACOUSTIC NONDIRECTIONAL RADIATOR, Makarov, et al, Acustica, Vol. 77, pp. 240-242 (1992)

EXAMINER <i>Deanne Harvey</i>	DATE CONSIDERED 12-27-01
----------------------------------	-----------------------------

*EXAMINER: Initial if reference considered, whether or not citations in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.

PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. T9573.NP		SERIAL NO. 10/055,821	
LIST OF PRIOR ART CITED BY APPLICANT				APPLICANT Croft III et al		RECEIVED MAY 20 2002	
				FILING DATE 1-22-02			
U.S. PATENT DOCUMENTS Technology Center 2600							
EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
OH	BA	3,674,946	7/4/72	Winey			
	BB	3,787,642	1/22/74	Young Jr.			
	BC	3,821,490	6/28/74	Bobb			
	BD	3,829,623	8/13/74	Willis et al			
	BE	3,833,771	9/3/74	Collinson			
	BF	3,836,951	9/17/74	Geren et al			
	BG	3,892,927	7/1/75	Lindenberg			
	BH	3,919,499	11/11/75	Winey			
	BI	3,941,946	3/2/76	Kawakami et al			
	BJ	3,997,739	12/14/76	Kishikawa et al			
	BK	3,922,504	11/25/75	Kishikawa et al			
	BL	4,056,742	11/1/77	Tibbetts			
	BM	4,064,375	12/20/77	Russell et al			
	BN	4,156,801	5/29/79	Whelan et al			
	BO	4,160,882	7/10/79	Driver			
	BP	4,207,571	6/10/80	Passey			
	OH	BQ	4,210,786	7/1/80	Winey		
BR		4,242,541	12/30/80	Ando			
FOREIGN PATENT DOCUMENT							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	BS						
	BT						
	BU						
	BV						
	BW						
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)							
OH	BX	THE AUDIO SPOTLIGHT: AN APPLICATION OF NONLINEAR INTERACTION OF SOUND WAVES TO A NEW TYPE OF LOUDSPEAKER DESIGN, Yoneyama, et al, J. Acoustical Society of America 73(5), May 1983, pages 1532-1536					
	BY	ELECTROSTATIC LOUDSPEAKER DESIGN AND CONSTRUCTION, Chapters 4 and 5, pages 59-91, Wagner, Ronald, Audio Amateur Press Publishers, 1993					
	BZ						
EXAMINER Dione Harvey					DATE CONSIDERED 12/27/04		
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance And not considered. Include copy of this form with next communication to Applicant.							

 PTO-449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF PRIOR ART CITED BY APPLICANT	ATTY. DOCKET NO. T9573.NP	SERIAL NO. 10/055,821
	APPLICANT Croft III, et al.	
	FILING DATE Jan. 22, 2004	GROUP 2644

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>2014</i>	A1	3,674,946	07/04/72	Winey			
	A2	3,919,499	11/11/75	Winey			
	A3	4,228,327	10/14/80	Sawafuji			
	A4	4,491,698	01/01/85	Larson			
	A5	4,544,806	10/01/85	Nieuwendijk			
	A6	4,703,510	10/27/87	Larson			
	A7	4,837,838	06/06/89	Thigpen			
<i>2014</i>	A8	4,924,504	05/08/90	Burton			
	A9						
	A10						
	A11						
	A12						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A13						
	A14						
	A15						
	A16						
	A17						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

A18	
A19	
A20	
EXAMINER <i>[Signature]</i>	DATE CONSIDERED <i>12-22-04</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.	